Yaowen Hsy

· Resource: Youtube Marin Stats Lectures - R Programming & Statistics, (Eff 67 channel?) Google R cheat-Sheet, Cran (Packages), www.rstudio.com

· Homework: UWI Download R Program * Practice! Practice! Practice! watch 3 clips this week . Learning Purpose: Analyze Big Data 4 clips per week afterward

help hop T RStudio: free, open source intergrated development environment of IDE for R

- ①設×為1到5: ×←1:5
- 3書圖: plot (x,y)
- ●專讓尺記住設定: 13()
- 5 Import Data: read. table
- ① 方上角 reveal R's memory
- y 6 10: y<-6:10 # Same, revels second line
 - 3 \$7\$ reveal plot and click Export to save image
 - る ると角 Import Pataset:確認 Data鉄 可在表格第一列 町 arrow () ま ま adjust sequence
 - 1 Create New command: Flie + New File + New R script + Type command on lofe up corner Eg. # create a new variable Z <- 11:15 # add up x, y, Z sum (1, 4. 2)
 - File + Save As
 - 1 Embed R code: File -> New file -> & Markdown
 - 1 Organize your code: File New Inject

```
* Cantion: I. R is case sensitive, so 1 th don't mix with Capitals
Command Missis
                                                   2. R can overwise . 先写定被 锁穹盖掉
1. X = 某數 也可以寫成 X 4_15
                                                   3. 可以alphabet + aumber 成都object of along,但是 sequence opposite 則言
2. 若想着某草面(+0×) 现在的 R nomovy 是什麼: print (x) 4. 可以 alphat alpha 双色 object of st u amin', 但事用""把某面包住, 且只会把此
                                                      賴散物 character instead of number (If pue aumber in curte.) ag no 12. Actual at
                                                    5. 最多 + 69 symbol appears mean that your command is incomplete (標準 a) 情報 en
     1 R memory 中现有耐东西:15()
                                                    6. 如 推 在指至中文字前可读 本語思時 command 9. R requires consistency my my man
4. 苦想青萍掉某车面: rm(y)
                                                   7. 按上键口图口音机到上相称
 5. 可至妻 城: Z ← x+y
```

```
6. 開根號: sqrt( )
 7. 12 109: 109()或者1092()
 8. 16 $ 7 exp()
                                                                              & Data Frame
  q. 為色對值: abs ( )
 (O. 知道檔案寫在哪: getwdc)
 11. 查詢資料型能: class()
                                                                                 A SER dimension / SE component / See vector
12. 开外成局里: Concatenate (g newshirec + C () 12 11) 11 12 15 15 16
                                                                            nemalest (- ( ) ? F. "Her" / & $ $ 63 R $18 37 8 $" 19" + 38 41 - 14 16
13. 扩入出分量: elementone (- newsbject [1]
14. 把character 實 numeric: elementone <- as. numeric (elementone)
                                                                          一教養養 of 种能是此,L代表世報 本用manin ( alice interal ## M
15. eng New - length (new Object) .. his state of an electronic of length of the control of
[6. 开y 成序列 同量: 「島湾田 Segu - -2000: 2000· [桂面子水和红·印···
                                                                                                                                                                                 Caution
 Command
                                                 | 島は② Segu (from=1, to=7, by=1) [1]1234567
                                                                                                                                                                                 1. 相同長度/核式的石量·和加減季厚
                                                         / 1 27 FK " character" or 113 or legitering, tors, byears) or c ("a". f")
                                                                                                                                                                                 2. 疑陣也可相如減乘降
    1. rep(): rep(1, times=5) [1] 11111
                                                                                                                    O politilita 3563 number 87 fft recen
   2. 取向量其中一截: 如 y ~ c(1,3,5,7,9) 則 y 国 会超出5
                                                                                                                                                                                                           Command
                                                                                                                    @ y[113] @ y[c(1.51] 13k9
                                                                                                                                                                                        1. 寫道 csv 播码 Jata [and
                                                                                                                    @ y[-c(1.5]] }} 1 1 1 1 1 0 9 9 1 [ y c 6]
                                                                                                                                                                             SWHERT IZE & data L
                                                                                          1 3 1 matrix , willing
                                                                                                                                                                                     O data 1 <- read. csv (file. choose(), header = TRUE
     3. 天色7年: matrix (c(1,2,3,4,..., 9), nrow=3, byrow=TRUE)
                                                                                                                                                        D data 2 - read table (file choose (), header = T, sep = ",")
                                                         byrow = FALSE
                                                                                                                                           2. 寫入女t 槽的 data 建设设备输入设 data 是接 data 是是提出来。
              -> by row = TRUE
                                                                                                                                                 O data 3 <- read. delim (file.choose (), header=T) $1$ treff
                                                                  [,1] [,2] [,3]
                           [1][2][3]
                                                                                                                                                O data 4 (- read. table (file. choose (), hender= T, sep = " \t'
                                                            [.1] | 1 1
                     [.1] 1 2 3
                                                           [.2] 2 5 8
                     [,2] 4 5 6
                                                            [.3] 13 6 9
                     [.3] 2 8 9
       牛取矩阵的$x (先設矩阵物 mat ←肝-長声)
              1) 單一數: mat [1, 2]
             2) 多個製: mat [c(1, 3), 2]
             引整行/列: mat [2, ] or mat [, 3]
```